

**IN THE SPECIFICATION:**

Please REPLACE paragraph [001] beginning at page 1, line 5, with the following paragraph:

This application is a continuation-in-part of U.S. Patent Application Serial No. 10/341,151, filed January 13, 2003 and entitled "A Device and Method for Determining All Components of the Stokes Polarization Vector within a Radar Signal," now U.S. Patent No. 6,762,713, granted July 13, 2004.

Please REPLACE paragraph [043] beginning at page 18, line 19, with the following paragraph:

For the infrared and visible frequencies, the spectrum may be measured using a Computed Tomographic Spectral Imager such as that described by Descour, et al. in *Applied Optics* (Michael Descour and Eustace Dereniak, "Computed-Tomography Imaging Spectrometer: Experimental Calibration and Reconstruction Results," *Applied Optics*, Vol.-~~XX~~ 34, No.-~~XX~~ 22, p. 4817 (August 1995)). In this case, a separate spectrum may be generated for each resolution element (pixel) of a focal plane, so that it is possible to perform the polarization correlation process on every pixel in the target scene. In this way, both spatial, spectral, and polarization correlation may be used to effect target detection and/or identification.